Dart Aerospace Ltd. Monday, 6/5/2006 7:47:58 AM Kim Johnston User: **Process Sheet Drawing Name** : DOUBLER : CU-DAR001 Dart Helicopters Services Customer Job Number : 27378 **Estimate Number** : 11466 : D314092 : NA **Part Number** P.O. Number S.O. No. : NIA : D3140 REV D1 **Drawing Number** : 6/5/2006 This issue : N/A : NC **Project Number** Prsht Rev. : NA : SMALL /MED FAB **Drawing Revision** : D1 Type First Issue : NIA : 25733 Material **Previous Run** Due Date : 6/30/2006 Qty: 4 Um: Each Written By Checked & Approved By Comment New Issue NG Est. Rev B New dwg rev. ecn781 06.04.18 EC **Additional Product** Job Number: Description: Seq. #: Machine Or Operation: M2024T3S032 2024-T3 .032 sheet 1.0 Comment: Qty.: 0.1549 sf(s)/Unit Total: 0.6195 sf(s)2024-T3 .032 sheet Matl: 2024-T3 (QQ-A-250/4) .032" thick (M2024T3S.032) 5.00" x 4.06" flat pattern ref Note grain direction Batch/// 2.0 SHEAR Comment: SHEAR Cut as per dwg D3140 HAAS CNC VERTICAL MACHINING #1 3.0 HAAS1 Comment: HAAS CNC VERTICAL MACHINING #1 - Deburr. No sharp edges Notch-out .75 x .40 corner as per-dwg (-91 shown) Form as per dwg (-91 shown) 4.0 00 **Comment: INSPECT WORK TO CURRENT STEP** HAND FINISHING RESOURCE # 5.0 Comment: HAND FINISHING RESOURCE #1 Chemical Conversion Coat as per QSI 005 4.1

Page 1 QCB. 206.06.12 (4)

Form: rprocess

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W/O:		WORK ORDER CHANGES	WORK ORDER CHANGES											
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector							
			ı											
Q Type														

NCR: WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B		Verification	Approval	Annroval
DATE	STEP	Section A	Initial Action Description Sign & Design Mgr Date		Section C	Design Mgr	Approval QC Inspector	
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Part No:	PAR #:	Fault Category:	NCR:	Yes (No) DQA:	Date: Oblockii
NOTE: Date & initial all entries				QA: N/C Closed:	Date:

Monday, 6/5/2006 7:47:58 AM Date: User: Kim Johnston **Process Sheet Drawing Name: DOUBLER** Customer: CU-DAR001 Dart Helicopters Services Part Number: D314092 Job Number: 27378 Job Number: Description: Seq. #: **Machine Or Operation:** INSPECT POWDER COAT/CHEMICAL CONVERSION 6.0 QC3 Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION CZCCII PACKAGING RESOURCE #1 7.0 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Identify and Stock 1.206/13/04 Location: DOCUMENT CONTROL 8.0 Comment: DOCUMENT CONTROL Inspection Level 21 Job Gampletion

Form: rprocess

Page 2

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W/O:		WORK ORDER CHANGES										
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector					
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NCR:		WORK ORDER NON-CONF	ORMANCE (NC	R)								

NCR:			WORK ORDER NON-CONFORMANCE (NCR)										
		Description of NC		Corrective Action Section B		Verification	Approval Design Mgr	Approval QC Inspector					
DATE	STEP	Section A	Initial Design Mgr	Action Description Design Mgr	Sign & Date	Section C							
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Part No:	PAR #:	Fault Category:	NCR:	Yes I	No	DQA:	Date:
NOTE: Date & initial all entries				QA: N	/C CI	osed:	Date:



DESIG	n DS	DRAWN BY	DART - AEROSPACE LTD - HAWKESBURY, ONTARIO, CANADA
CHEC	KED	APPROVED	DRAWING NO. REV. D3140 SHEET 1 OF
DATE	·	· · · · · · · · · · · · · · · · · · ·	TITLE SCAL
05.1	11.23		DOOR NT
Α		02.04.18	NEW ISSUE
В		03.01.23	REMOVE -65/-81/-83; ADD -301/-303
С		04.11.08	CHANGE DELASTEK SPEC. TEC-77; ADD PART MARKING; ADD NOTES 11, 12, 13 CHANGE ANGLE -95/-97/-98 TO 106
D		05.11.23	ADD -103/-104/-105/-106; REMOVE -67

THE 06.03.31 1.75 WAS 1.88; 4.75 WAS 4.13



DI

QTY -05	QTY -06	QTY -07	QTY -08	QTY -09	QTY -10	PART NUMBER	DESCRIPTION
X X	-00		-08	-09		D3140-05	DOOR
	х				 	D3140-06	DOOR
	 ~ -	Х	 			D3140-07	DOOR
			X			D3140-08	DOOR
		1		Х	l	D3140-09	DOUBLER ASSEMBLY
			1		X	D3140-10	DOUBLER ASSEMBLY
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3	3					D3140-57	PAD
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2	2					D3140-61	PAD
2	2					D3140-63	PAD
		1	1			D3140-69	PAD
		1	1			D3140-71	PAD
		1	1			D3140-73	PAD
		1	1		***************************************	D3140-75	PAD
		1	1			D3140-77	PAD
		1	1			D3140-79	PAD
				1	1	D3140-85	ANGLE
1	1					D3140-87	DOUBLER
				1	1	D3140-89	DOUBLER
		1				D3140-91	DOUBLER
			1			D3140-92	DOUBLER
3	3					D3140-95	DOUBLER
1						D3140-97	DOUBLER
	1					D3140-98	DOUBLER
		1	1			D3140-99	DOUBLER
		2	2			D3140-101	DOUBLER
		1				D3140-103	DOUBLER
			1			D3140-104	DOUBLER
		1				D3140-105	DOUBLER SHOP COPY
			1			D3140-106	DOUBLER RETURN TO
1	1					D3140-241	DOUBLER FNGINEERING
1		1_				D3140-301	DOUBLER UNCONTROLLED
	1_		1			D3140-303	DOUBLER SUBJECT TO AMEND
							SUBJECT TO THE
				5	5	MS20426AD3-4	RIVET WITHOUT NOT!

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DESIGN DS	DRAWN BY RF		ROSPACE LTD RY, ONTARIO, CANADA
CHECKED	APPROVED	DRAWING NO.	REV. D SHEET 2:0F 7
DATE	47	TITLE	SCALE.
05.11.23		DOOR	NTS



COMPOSITE LAYUP & BONDING I.A.W. DELASTEK PROCESS SPEC. TEC-77 MATERIAL STORAGE & HANDLING TO BE I.A.W. DART QSI 006 MAIN LAYUP USES FIBERCOTE E-761/7781 EPOXY FIBERGLASS. FILL WITH EPOCAST 87269 OR MAGNOBOND 77 A & B AND MA560 FOAM/ NB-51/30 FOAM



FINISH: DUPONT HIGHBUILD GREY PRIMER 1144-S

MAKE PARTS IN ACCORDANCE WITH THE FOLLOWING TOOLS/MOLDS:

PART	TOOL
D3140-05	B30-23000-01T
D3140-06	B30-23000-02T
D3140-07	B30-23000-03T
D3140-08	B30-23000-04T
D3140-57	B30-23000-57T
D3140-61	B30-23000-61T
D3140-63	B30-23000-63T
D3140-69	B30-23000-69T
D3140-71	B30-23000-71T
D3140-73	B30-23000-73T
D3140-75	B30-23000-75T
D3140-77	B30-23000-77T
D3140-79	B30-23000-79T
D3140-89	D3140-89T1
D3140-301	D3140-301T1
D3140-303	D3140-303T1

ALL DIMENSIONS IN INCHES





MATERIAL: 2024-T3 (QQ-A-250/4) 0.032 THICK (M2024T3S.032) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



MATERIAL: 2024-T3 (QQ-A-250/4) 0.020 THICK (M2024T3S.020) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



MATERIAL: 5052-H32/H34 (QQ-A-250/8) 0.040 THICK (M5052H32S.040) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1



MATERIAL: POLIMEX TR75 1" THICK 4.5 LB KLEGECELL

DOUBLER TO SIT ON TOP OF FOAM AT THIS LOCATION



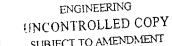
TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED



MATERIAL: 6061-T6 (QQ-A-250/11) 0.063 THICK (M6061-T6S.063)



FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1





DOUBLER TO BE RECESSED FLUSH INTO FOAM AT THIS LOCATION

SUBJECT TO AMENDMENT WITHOUT NOTICE

SHOP COPY

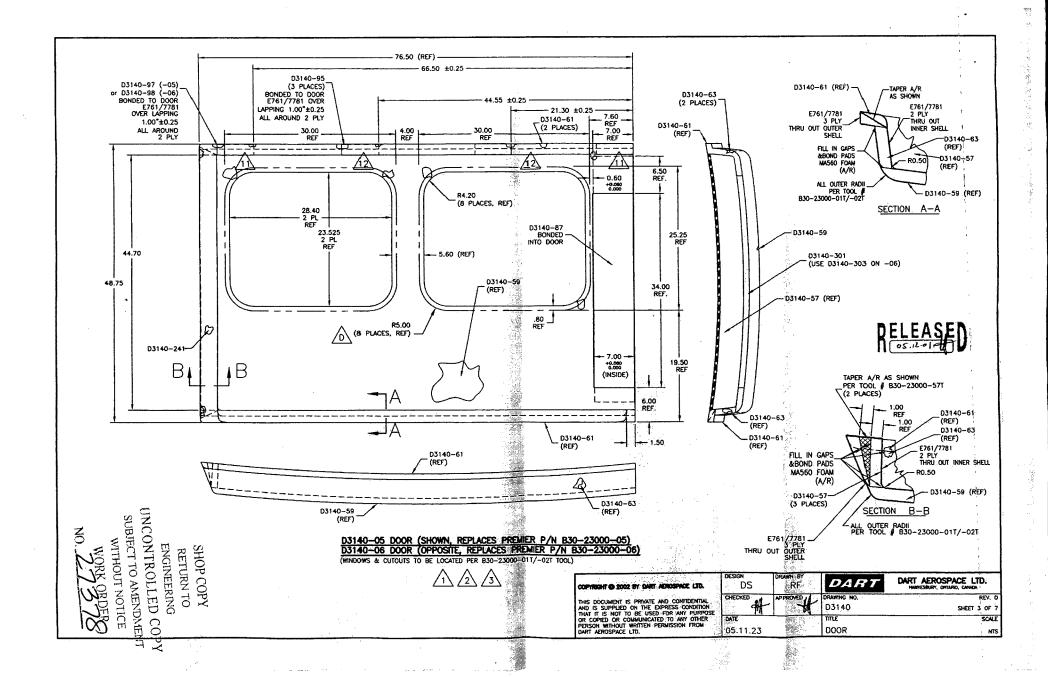
RETURN TO

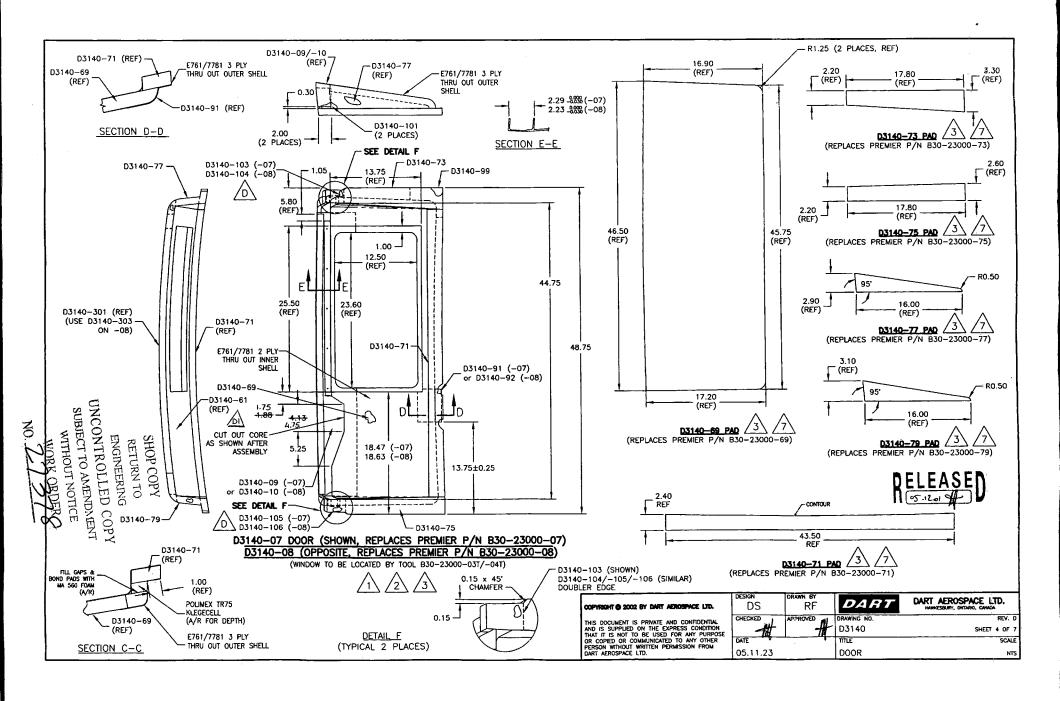


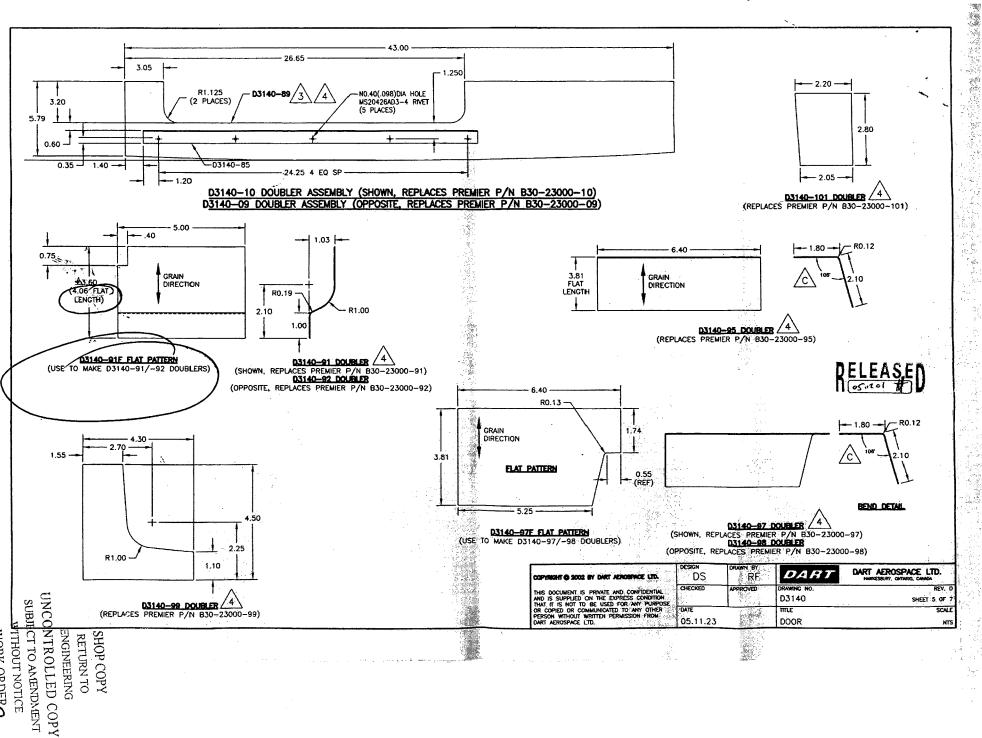
RUBBER STAMP WITH DART P/N D3140-05/-06/-07/-08 USING MIL-STD-130

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WORK OF DEPR

NO 2725-8

- 76.10±0.25 -3.25 2.20 (REF) D3140-61 PAD /3 /7
(REPLACES PREMIER P/N B30-23000-61) 4.75 ±0.25 3.25 (REF) 76.00±0.25 03140-63 PAD 3 \(\frac{7}{3}\)\(\frac{7}{63}\)
(REPLACES PREMIER P/N B30-23000-63) 75.25±0.25 -44.50 47.50 44.70 (REF) 46.25 (REF) 03140-241 DOUBLER 5 (REPLACES PREMIER P/N B30-23000-241) D3140-57 PAD (REPLACES PREMIER P/N B30-23000-57) R1.00 (2 PLACES, REF) 03140-59 PA0 77 (REPLACES PREMIER P/N 830-230000-59) UNCONTROL SUBJECT TO A DS DART AEROSPACE LTD. DART WITHOUT ENGINEE SHOP COPY
RETURN TO THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. 03140 SHEET 7 OF DATE 05.11.23 DOOR LED COPY AENDNENT SING

DART AEROSPACE LTD	Work Order: 27378
Description:, '	Part Number: 3140-92
	31 10 10
Inspection Dwg: , Rev:	Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X First Article X Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
3060 -	H-0-030	3.30	1		Vern	
5.00	11 17	5.00	V		vern	
4.06	1	4.0.6	J		vern	
0.75	= 11	0.74	V		vern	
0.40	4 11	0.40	J.		Vern	
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				•		

4			
Measured by: M/	Audited by:	Prototype Approval:	
Date: 06 06 08	Date: 06.06.12	Date:	

Rev	Date	Change	Revised by	Approved
Α		New Issue	KJ/JLM	

